

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	65145	("347").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/23 11:48
L3	348	(347/48).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/23 11:48
L4	1134184	electrode	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/23 11:48
L5	4905446	volume volumetric size expan\$4 contract\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/23 11:50
L6	135	3 and 4 and 5	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/23 11:49
L7	223837	(volume volumetric size expan\$4 contract\$4) same electrode	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/23 11:50
L8	76	3 and 7	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/23 11:51
L9	2854784	water gel	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/23 11:51
L10	22	8 and 9	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/23 11:51
S11	5551128	(contract\$3 shrink\$3 deformat\$3 compliance flexible flexibility expand\$3 extend\$3 distent\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/21 16:30
S12	2309222	heater thermal heating	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:14

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S13	1692558	contract expand flexible	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:14
S14	1118384	electrode	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:14
S15	64360	("347").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/12/16 17:14
S16	3612	S12 and S13 and S14 and S15	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:14
S17	102689	channel same (fluid liquid ink) and chamber	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:19
S18	1295	S16 and S17	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:14
S19	3717	(heater thermal heating) same (contract expand) same electrode	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:14
S20	277	S19 and S15	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:15
S21	223	S17 and S20	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:15
S22	23206	(contract\$3 shrink\$3 deformat\$3 compliance flexible flexibility expand\$3 extend\$3 distent\$3) same (heater thermal) same electrode	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:21
S23	3269337	stimulus pulse signal	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:17
S24	8071	S22 and S23	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:17

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S25	754	S24 and S15	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:18
S26	289	S17 and S25	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:19
S27	64832	channel same (fluid liquid ink) same chamber	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:23
S28	237	S27 and S25	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:19
S29	2605	(contract\$3 shrink\$3 deformat\$3 compliance flexible flexibility expand\$3 extend\$3 distent\$3) same (heater thermal) same electrode same (signal pulse stimulus)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:22
S30	220	S29 and S15	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:22
S32	47	S27 and S30	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/16 17:23
S33	1	("5515085").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/22 12:38
S34	35164	((channel path) near2 (fluid ink liquid)) and nozzle	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/22 12:40
S35	66166	((channel path) with (fluid ink liquid)) and nozzle	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/22 12:40
S36	593836	(tank chamber) with (ink fluid liquid)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/22 12:40

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S37	33418	electrode with (volume volumetric)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/22 12:44
S38	834	S35 and S36 and S37	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/22 12:44
S39	65107	("347").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/22 12:44
S40	469	S38 and S39	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/22 12:44
S41	519	electrode with ((volume volumetric) with expand\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/22 13:47
S42	35	S35 and S36 and S41	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/22 13:47
S44	2277	electrode with ((volume volumetric) and expand\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/22 13:47
S46	158	S35 and S36 and S44	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/22 13:47
S47	123	S46 not S42	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/22 14:55
S50	95456	gel with water	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/22 14:58
S52	508246	gel	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/22 14:58
S53	22	S46 and S52	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/22 15:02

## EAST Search History

S54	3	((("5856837") or ("6406131") or ("6293654")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/22 15:45
S55	1	("6520630").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/23 11:48